UI Bulletin #85d

Subject:	RPO ENC, Provisions for a Rear Auxiliary Heater
Models Years Affected:	2008 - 2018
Models Affected:	Chevrolet Express Cut-away Chassis GMC Savanna Cut-away Chassis
Origination Date:	02/19/2008
Revision Date:	January 4, 2021

ADVISORY:

This bulletin is being issued to advise there is a difference in the heater supply and return pipe configuration between gasoline-equipped vehicles and diesel-equipped vehicles. – Revised to update Model Year Coverage

Condition/Concern:

RPO ENC, provisions for a rear auxiliary heater, is an available option and incorporated with certain sales packages on both gasoline and diesel-powered G Cutaway chassis. The provisions include the heater supply and return pipes located under the passenger side of the cab and a 3-position fan switch located in the dash panel.

Repair/Recommendation:

Attached are illustrations showing 3 configurations of RPO ENC.
They are as follows:

- 2008 Diesel Engine, without RPO K08 fuel-operated heater.....pg. 2
- 2008 Diesel Engine, with RPO K08, fuel-operated heater..... pg. 2
- 2008 Gasoline Engine..... pg. 3

The differences between the two configurations of RPO ENC for diesel and gasoline engine are:

• For diesel-equipped vehicles the outboard pipe (as viewed from the rear of the vehicles) is the supply of engine coolant to the rear auxiliary heater, with and without the K08 fuel operated heater. The inboard pipe is the return of engine coolant from the rear auxiliary heater to the engine cooling system.

• For gasoline-equipped vehicles, the inboard pipe (as viewed from the rear of the vehicle) is the supply of engine coolant to the rear auxiliary heater. The outboard pipe is the return of engine coolant from the rear auxiliary heater to the engine cooling system. It is important to note the difference between supply and return especially if an auxiliary coolant flow pump is utilized to aid in coolant circulation to the rear auxiliary heater core. If the auxiliary coolant pump is installed incorrectly, the operator may experience several symptoms including insufficient rear heat, inoperable fuel operated heater (if equipped) and insufficient coolant flow throughout the

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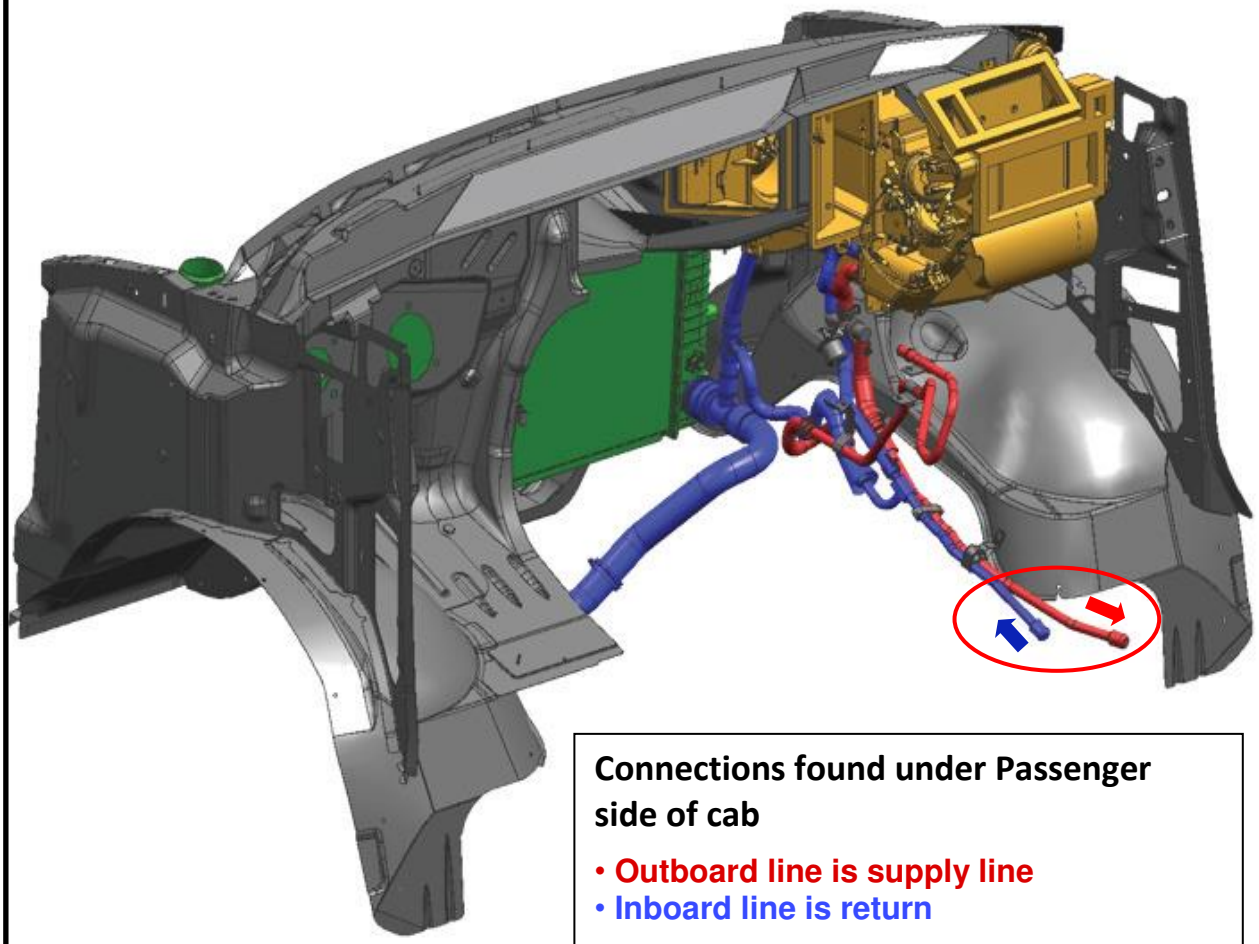
engine. These symptoms may cause engine Diagnostic Trouble Codes (DTC) and illumination of the service engine soon (SES) light on the instrument panel.

Additional Information:

Diesel Engine without Fuel-Operated (KO8)



Connections found under Passenger side of cab

- **Outboard line is supply line**
- **Inboard line is return**

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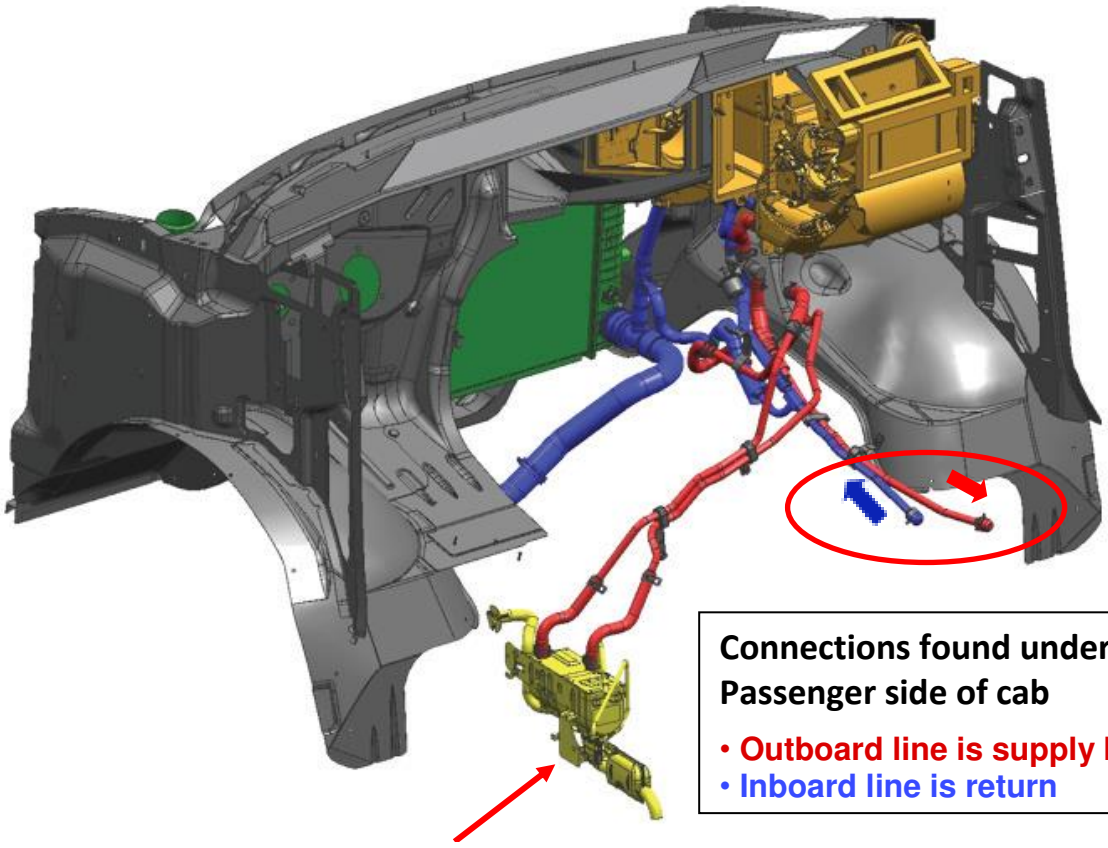
Diesel Engine with Fuel-Operated Heater (K08)



Connections found under Passenger side of cab

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- **Inboard line is return**

Fuel Operated Heater

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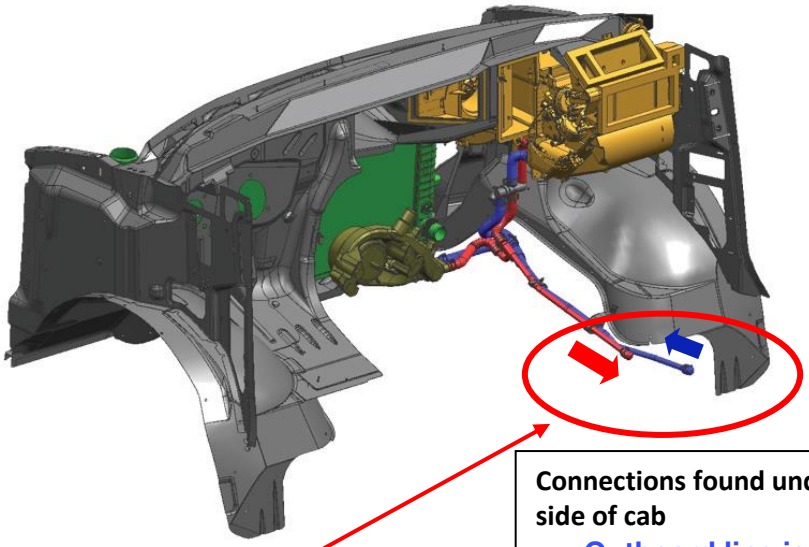
Gasoline Engine

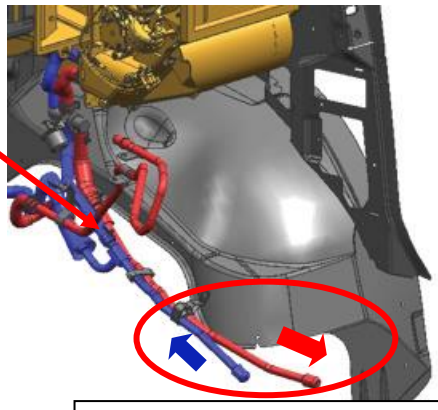


Connections found under Passenger side of cab

- **Outboard line is return**
- **Inboard line is supply line**

NOTE:
HEATER PIPE DIFFERENCES

Diesel Engine



Connections found under Passenger side of cab

- **Outboard line is supply line**
- **Inboard line is return**

IMPORTANT:

It is important to note the difference between supply and return especially if an auxiliary coolant flow pump is utilized to aid in coolant circulation to the rear auxiliary heater core. If the auxiliary coolant pump is installed incorrectly, the operator may experience several symptoms including insufficient rear heat, inoperable fuel operated heater (if equipped) and insufficient coolant flow throughout the engine. These symptoms may cause engine diagnostic trouble codes (DTC) and illumination of the service engine soon (SES) light on the instrument panel.

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